

What is claimed is:

1. A process for transmitting asynchronous data packets, comprising the steps of:
starting a packeting operation of asynchronous data;
receiving a message from a message composition module;
interrupting said packeting operation based on said message;
transmitting a packet of asynchronous data formed during said packeting operation
prior to said interrupting step; and
repeating said steps of starting, receiving said message, interrupting, and transmitting
thereby transmitting a plurality of packets.
2. The process of Claim 1, further comprising the step of receiving said packets at
said message composition module.
3. The process of Claim 2, wherein said step of receiving said packets is performed in
a predefined order.
4. The process of Claim 2, further comprising the step of composing a message with
said packets at said message composition module.
5. The process of Claim 4, further comprising the step of formatting said message
into a formatted message.
6. The process of Claim 5, further comprising the step of transmitting said formatted
message.
7. The process of Claim 1, wherein said interrupting step is triggered when said
message is received from said message composition module.
8. The process of Claim 6, wherein a packeting time duration for said packeting
operation is more than half of a total time duration for packeting said asynchronous data and
for transmitting said formatted message.

9. The process of Claim 8, wherein said packeting time duration is about equal to said total time duration.

10. The process of Claim 1, wherein a packeting time duration for said packeting operation is equal to a cycle time for a transmission line over which said packets are transmitted.

11. The process of Claim 6, wherein a packeting time duration for said packeting operation is more than a time duration for transmitting said message.

12. A process for transmitting a packet of asynchronous data, comprising the steps of:
packeting said asynchronous data into a packet during a packeting time;
requesting said packet;
stopping said packeting;
composing a message comprising said packet; and
transmitting said message during a message transmitting time,
wherein said step of requesting is performed so that said packeting time is greater than said message transmitting time.

13. The process of Claim 12, wherein said step of transmitting said message is performed over a transmission line having a cycle time, and said step of requesting is performed so that said packeting time is equal to said cycle time.

14. The process of Claim 12, wherein said stopping step is triggered by said requesting step.

15. The process of Claim 12, wherein said packeting time is more than half of a total time for packeting said asynchronous data and for transmitting said message.

16. The process of Claim 15, wherein a time for transmitting a message is so short compared to said packeting time that said total time is about equal to said packeting time.